

Graft Syringe RTU

9/13/00
JV

4405249 (Carpies 3-19-01) (Scales)

- ① X - we have no conical piston
- X - we have no piston deformity
- ⑦ X - requires deformable, conical piston

4,551,135 (Gorman)

- a) closed upper end of barrel
- c) flared barrel
- to facilitate extrusion of mass from barrel
- X - we will have a slightly smaller lower (delivery) end
- flare is in opposite direction

4632732 (Kuitrud)

- a venting syringe plunger
- all claims require O-ring which produces a directional valve
- X - our design has no O-ring + we are always open

4769011 (Swaniger)

- ① X - no plunger guide hole
- no flexible plunger stem
- ①⑨ X - same limitations
- ②⑨ X - same limitations

4820306 (Gorman)

- X - jaw surgery method claims only
- X - flare

4994065 (Gibbs)

x - (caulking gun) ratchet required

5152763 (Johnson)

- requires: coring of patient's bone to produce autograft
 - : compressing bone
 - : introduce at receptor site

→ requires "bone grafter" device to core + then deposit graft elsewhere

(Brandhorst) 5181918

x - requires Valve means (O-ring) for directional vacuum production

5577517 (Bonutti)

- ① - sealing over graft material placed in an opening in the human body
- conducting a flow of sealant material
- ④ x - requires removing fluid from particles

5694981 (Bonutti)

① + ④ + ⑧ x - requires suction + removing fluid

5,697,932 (Smith)

- ① x - requires inserting tube + then removing tube from area + keeping graft in place
- ④ x - medullary canal (in long bones)
 - withdrawing tube while leaving plunger in place
- ③ x - plunger must be removable in first end of tube
- ⑥ x - requires tube extractor

5718707 (Mikhail)~~check value, diaphragm, + actuating means~~

- ① X - requires guide wire (to trap depression into graft) + ejector member
- ⑤ X - requires guide wire + ejector member
- ⑧ X - requires ejector member (we have 1 plunger, not two)

5772665 (Gled)

X - Check valve, diaphragm, + actuating means.

5824084 (Muschler)

X - Method involving BM expirator

5925051 (Mikhail)

X - Method of '707, w/ guide wire + ejector member

6019765 (Thornhill)

- JJPI

X- 1 + 10 - rectangular cup + nozzle

X- 11 - plurality of nozzle for injecting ink pasteurizers

6048585 (Smith)

- Contn of '932

① X - X. position impression formed in graft by pushing plunger into graft

⑩ X - moving tube away from receiving area + plunger remains

X - cavity w/in graft

6049026 (Muschler)